

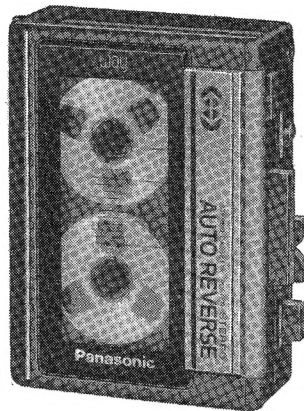
Service Manual

Auto-Reverse 03130333 91004988
Stereo Cassette Player SM-RQJ8
SUPPL. + SM-RQJ7

Mini Cassette
43
1 ST
Q-J8

(Black, Red)
(White, Blue)

- The RQ-J8 is a modified version of the RQ-J7 slightly different in design and accessories.
- Please use this manual together with the service manual for model No. RQ-J7 order No. GAD8401330C8-04 and supplementary service manual RQ-J7 order No. GAD84070330S8.



This is the Service Manual for the following areas.

- Z** ... For all European areas except United Kingdom.
- E** ... For United Kingdom.
- X** ... For Asia, Latin America, Middle East and Africa areas.
- L** ... For Australia.

Area	Color
Z E	Black, Red, White and Blue
X L	Black, Red and White

Note:

When servicing model RQ-J8, replace the cabinet, accessories, and packing parts list for mode RQ-J7 with the below parts list.

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
CABINET PARTS			G 11	XQN16 + A35FC	Screw, Bottom Case M'tg (White) $\phi 1.6 \times 3.5$	G 21	QH01362	Ornament Screw (White)
G 1	RYMQJ8Z	Front Cabinet Ass'y	G 12	XQN16 + A5FR	Screw, Circuit Board M'tg $\phi 1.6 \times 5$	G 22		
G 1-1	QYT51667	Lock Knob	G 13	XYC2 + CF16	Screw, Circuit Board M'tg $\phi 2 \times 1.6$	ACCESSORIES		
G 1-2	QBC8019	Lock Spring	G 14	XQN17 + C3FZ	Screw, Volume Knob M'tg $\phi 1.7 \times 3$	A 1	QFK0203K	Bracket
G 2	QBN8038	Battery Spring	G 15	XQN16 + A35FZ	Screw, Main Case M'tg $\phi 1.6 \times 3.5$	A 2 [Z][E]	RP9536Z	Headphones
G 3	RKK292Z1	Battery Cover (Black)	G 16	XTN016 + A2F	Screw, Tape Pressur Spring M'tg $\phi 1.6 \times 2$	A 2 [X][L]	RP9545X	Headphones
G 3	RKK292Z2	Battery Cover (Red)	G 20	RYQQJ8Z1	Cassette Lid Assembly (Black)	A 2-1 [Z][E]	RWR84614A28	Ear Pad
G 3	RKK292Z8	Battery Cover (White)	G 20	RYQQJ8Z2	Cassette Lid Assembly (White)	A 2-1 [X][L]	RWR84615A29	Ear Pad
G 3 [Z][E]	RKK292Z6	Battery Cover (Blue)	G 20 [Z][E]	RYQQJ8Z3	Cassette Lid Assembly (Blue)	A 3 [Z][E]	RQX4573Z	Instruction Book
G 4	RKM906Z1	Bottom Case (Black)	G 20 [X][L]	RYQQJ8X1	Cassette Lid (Black)	A 3 [X][L]	RQX4586Z	Instruction Book
G 4	RKM906Z2	Bottom Case (Red)	G 20 [X][L]	RYQQJ8X2	Cassette Lid (White)	A 4 [X][L]	RJN41Z	Demonstration Tape
G 4	RKM906Z8	Bottom Case (White)	G 21	QH01362K	Ornament Screw (Black, Red, Blue)	PACKINGS		
G 4 [Z][E]	RKM906Z6	Bottom Case (Blue)				P 1 [Z][E]	RPK1993Z	Gift Box
G 5	QGT1668	Volume Knob				P 1 [X][L]	RPK2007ZA	Gift Box
G 6	QJT0039	Lug Terminal				P 2	QPA0765	Cushion
G 7	QBP2023	Tape Pressure Spring				P 3	QPS0707	Rad
G 8	QQC2092	Spacer				P 4	XZB15X20A01	Polyethylene Cover
G 9 [Z][E]	RGT1139Z	Main Name Plate				P 5	QPC0128	Poly Sheet
G 9 [X][L]	RGT1139X	Main Name Plate						
G 10	QJB0188	Battery Terminal						
G 11	XQN16 + A35FZ	Screw, Bottom Case M'tg (Black, Red, Blue) $\phi 1.6 \times 3.5$						

National/Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

GAD **Z E X L** Printed in Japan (H)
H.S.

Service Manual

ORDER NO. GAD8401330C8-04

Mini Cassette

RQ-J7

(Red
White
Black)

Auto-Reverse
Stereo Cassette Player



This is the Service Manual
for the following areas.

D ...For all European
areas except United
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N ...For Asia, Latin
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areas.

RQ-J7 MECHANISM SERIES

Specifications

Power requirements: **D/B** ...AC; with optional
Panasonic AC Adaptor RP-31
N ...AC; with optional AC adaptor
RP-34
Battery; 3V [two R6 (UM-3) size
batteries]
Motor: Electrical governor motor
Tape speed: 4.8cm/s
Track system: 4-track 2-channel stereo playback
with included stereo headphones

Fast forward and
rewind time: Approx. 155 seconds with C-60
cassette tape
Jacks: DC-in; 3V
Headphones; output level 20mW
(at 16Ω)
Head: 1 super permalloy head for stereo
playback
Dimensions: 89mm(W)×112mm(H)×36mm(D)
Weight: 235g, without batteries

Design and specifications are subject to change without notice.

National / Panasonic

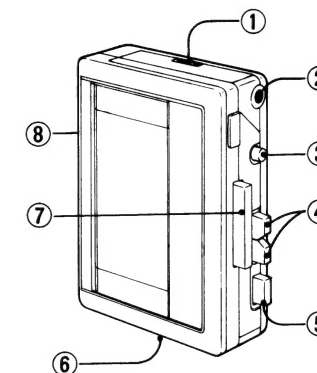
Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

RQ-J7

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LOCATION OF CONTROLS AND COMPONENTS



- ① Volume Control
- ② Headphones Jack
- ③ Direction Button
- ④ Fast Forward/Rewind Button
- ⑤ Stop Button
- ⑥ External Power Supply Input Jack
- ⑦ Play Button
- ⑧ Battery Compartment

DISASSEMBLY INSTRUCTIONS

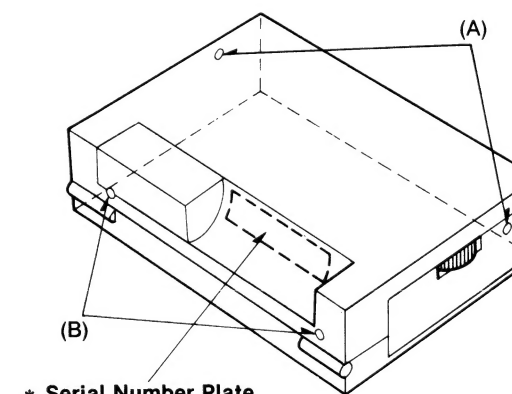


Fig. 1

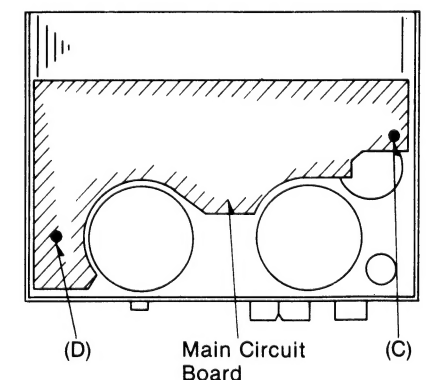


Fig. 2

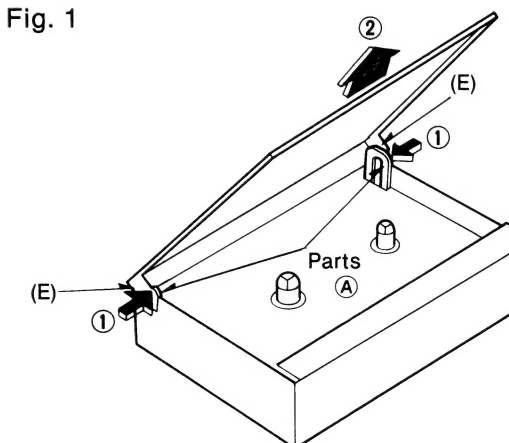
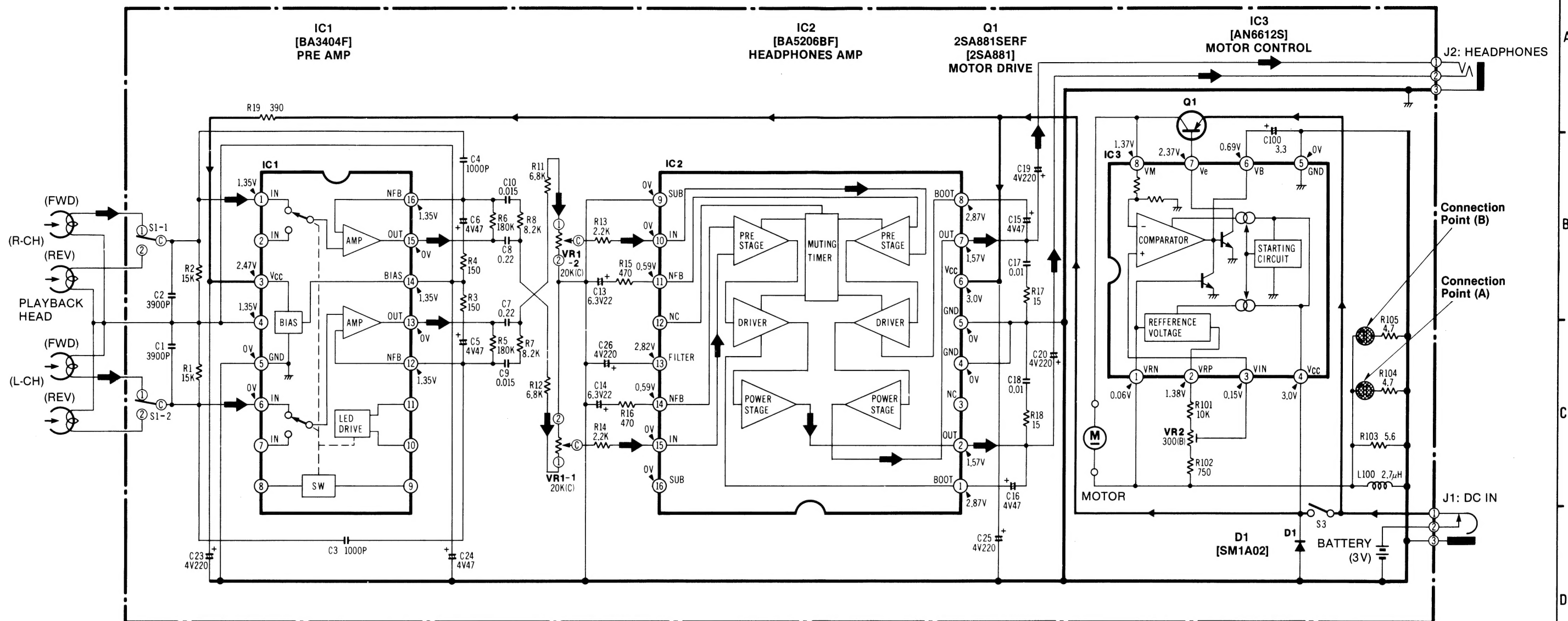
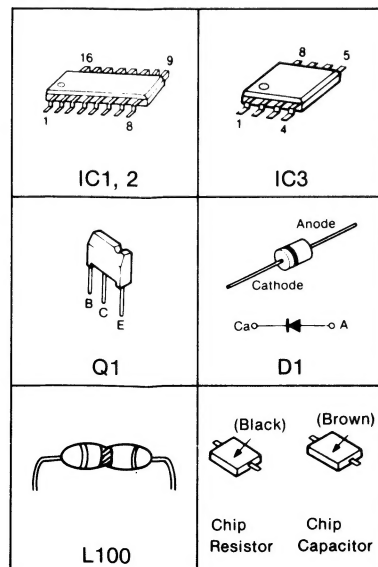


Fig. 3

SCHEMATIC DIAGRAM



TERMINATIONS



NOTES:

- S1-1, S1-2.....FWD/REV switch (shown in FWD position).
- S3.....Playback ON/OFF switch (shown in OFF position).
- VR1-1, VR1-2Volume controls.
- VR2Tape speed adjustment VR.
- Connection point (A) and (B).....For governor circuit adjustment.
- Resistance is in ohms (Ω), 1/8 watt unless specified otherwise.
- 1K = 1,000 (Ω), 1M = 1,000K(Ω).
- Capacity is in microfarads (μ F) unless specified otherwise.
- P = Pico-farads.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position.
- For measurement, use VTVM.
- (\rightarrow) this arrow indicates the flow of the playback signal.
- (\rightarrow) this arrow indicates the flow of the B+ (bias).
- Described in schematic diagram are two types of numbers; the supply parts number and production parts number for transistors and diodes. One type number is used for supply parts number and production parts number which they are identical.

e.g. Q1

2SC2412NRTB, LNSTB ← Production parts number
[2SC2412] ← Supply parts number

- The supply parts number is described alone in the replacement parts list.

This schematic diagram may be modified at any time with the development of new technology.

SPECIFICATIONS

Volume control...MAX.

Playback frequency response * Use test tape ...QZZCFM	125Hz: 0 ± 4 dB 315: 0dB 8kHz: -1 ± 4 dB
Playback gain * Use test tape ...QZZCFM	Greater than 0.6V

ELECTRICAL PARTS LIST

NOTES: RESISTORS

ERD.....Carbon
ERG.....Metal-oxide
ERS.....Metal-oxide
ERO.....Metal-film
ERX.....Metal-film
ERQ.....Fuse type metallic
ERC.....Solid
ERF.....Cement

CAPACITORS

ECBA.....Ceramic
ECGD.....Ceramic
ECKD.....Ceramic
ECCD.....Ceramic
ECFD.....Ceramic
ECQM.....Polyester film
ECQE.....Polyester film
ECQF.....Polypropylene

ECED.....Electrolytic
ECEDN.....Non polar electrolytic
ECQS.....Polystyrene
ECSD.....Tantalum
QCS.....Tantalum

CHIP RESISTORS
RRD.....Carbon
CHIP CAPACITORS
QCUU.....Ceramic

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description
COIL		
L 100	ELEMT2R7MR	Peaking Coil
SWITCHES		
S 1	QSS2238	Slide Switch (for FWD/REV)
S 3	QSB0311	Leaf Switch (for PLAYBACK)
JACKS		
J 1	QJA0149	DC IN Jack
J 2	RJJ1D22Z	HEADPHONES Jack

Ref. No.	Part No.	Ref. No.	Part No.	C 24	ECEA0GKS470
RESISTORS		VARIABLE RESISTORS		C 25	ECEA0GK221
R 1, 2	RRD18XJ153	VR 1	EVUBAAT50C24	C 26	ECEA0GKS221
R 3, 4	RRD18XJ151	VR 2	QVNB3A00B32L	C 100	ECSF0JD335
R 5, 6	RRD18XJ184	CAPACITORS		TRANSISTOR	
R 7, 8	RRD18XJ822			Q 1	2SA881
R 11, 12	RRD18XJ682	DIODE & RECTIFIER		DIODE & RECTIFIER	
R 13, 14	RRD18XJ222			D 1	SM1A02
R 15, 16	RRD18XJ471			INTEGRATED CIRCUITS	
R 17, 18	RRD18XK150			IC 1	BA3404F
R 19	RRD18XJ391			IC 2	BA5206BF
R 101	ERSB15J103			IC 3	AN6612S
R 102	RRD18XJ751				
R 103	RRD18XK5R6				
R 104, 105	RRD18XK4R7	C 1, 2	QCUT1H392MRL		
		C 3, 4	QCUT1H102MRL		
		C 5, 6	ECEA0GK470		
		C 7, 8	QCUX1E224ZFX		
		C 9, 10	QCUT1H153MRL		
		C 13, 14	ECEA0JKS220		
		C 15, 16	ECEA0GKS470		
		C 17, 18	QCUT1H103MRL		

(Front View)

(Rear View)



- ## BELT LOCATION



REPLACEMENT PARTS LIST

REPLACEMENT PARTS LIST

GAD

CABINET PARTS LOCATION

